THE MARYLAND STATE COLLEGE OF AGRICULTURE

ADVISER FARM

News Notes from the Field of the Extension Service, Released for Publication Every Two Weeks From the Office of the Director of Extension.

Vol. 2.

College Park, Maryland, October 16, 1916.

No. 26

PUBLISHED EVERY TWO WEEKS BY The Maryland State College of Agriculture COLLEGE PARK, MARYLAND

Entered as second-class matter February 5, 1915, at the post-office at College Park, Maryland, under the Act of August 24, 1912.

NOTICE

The purpose of the Farm Adviser is to furnish a convenient and timely medium for supplying news notes regarding the work of the Agricultural College, Experiment Station, and Extension Service, in co-operation with the U. S. Department of Agriculture to the local press and to county demonstration agents with a view to keeping them and the people throughout the State informed of the activities of these agricultural agencies in their behalf. All requests for copies of this sheet should be directed to Reuben Brigham, In Charge of Publications, The Extension Service, College Park, Maryland.

Will Test SoilsFree Of Charge

College Park, Md., Cct. 16.

While at the Maryland Week Exhibition at Baltimore, November 14 to 18, Maryland farmers should visit the booth of the Department of Soils of the Maryland Agricultural Experiment Station from College Park. There they may have an acidity test made of their soils free of charge. Through the County Demonstration Agent, Dr. A. .G McCall, head of the soils department of the Experiment Station, extends a very cordial invitation to farmers to bring with them soil samples from fields which they suspect are acid. He will be prepared frequently in using this test, pers-

to make a test of their samples and advise them as to the needs of their soil with regard to lime. In his letter to the County Agents Dr. McCall says:

"Will you not invite the farmers of your county to bring their soil samples with them and have a test made at our booth? A half pint sample each of soil and sub-soil will be sufficient. We hope to be able to make the tests so promptly that the owner of the sample may be able to take the result home with him the same day."

Soil acidity is one of the most important problems now confronting the farmers of Maryland. It has been estimated that over onehalf of the soils of Maryland are acid. Leaching of lime from the soil and the absence of limestone over such a large part of the state are responsible for this prevalence of soil acidity.

Acidity in the soil is undesirable for several reasons, the most important of which is the injurious effect upon alfalfa, clovers and other legumes. The presence of acid in the soil also prevents the formation of available plant food materials from the minerals and organic matter stored in the soil and produces conditions favorable to the growth of certain troublesome weeds, The degree of acidity of our soil varies widely from those which produce crops of clover and alfalfa, that barely pay the cost of seeding to those where these crops are total failures.

Acidity can be detected quite easily by the use of blue litmus paper, but this test gives no indication of the degree of acidity. Very

piration on the hand causes a change in the color of the litmus paper and soils are wrongly labeled as acid. The Soils Department of the Experiment Station is now using a new test which not only detects positively the presence of soil acidity but gives definite information as to the degree of acidity. It is a very simple test and by means of a very little special apparatus can be made by anyone at home on the farm. The test depends upon the fact that when zinc sulfid, a white flour-like substance, comes into contact with an acid soil and is mixed intimately with it, a gas is formed which may be detected by boiling the mixture and holding a strip of especially prepared lead acetate paper in the steam at the mouth of the boiling

The best and cheapest method of correcting acidity in soils is by the application of lime in some form. Here in Maryland we have the choice of burnt lime, air and water slaked lime, ground limestone and crushed oyster shells. Burnt lime should be used very carefully, as too liberal applications of it are sometimes injurious by causing extremely rapid decomposition of organic matter in the soil. Under most conditions the safest and cheapest form of lime to use is ground limestone or crushed oyster shell where the latter is available."

Selecting Potatoes For Exhibition

College Park. Md., Oct. 16. The County Demonstration Agents are now engaged in measur-

THE MARYLAND STATE COLLEGE OF AGRICULTURE

SHRIVOA

Meet Notes from the Field of the Extension Service, Released for Publication Every Two Weeks from the Office of the Dimerces of Extension.

Callege Paris, Maryland, October 16,

5 101

State college of Adrications

CHAPPEN PARK, MICRYLAND

HOPEOUT

which were I said he seeming said viscoli lime duringunina ilimust are of or autom smart good banks not mail nor good ageing work of the Assicultural which to take the result home with College, Elegar rover Stangar, and Extension Server, is recognished with the U.S. Dapartakent of Acriculture to the local mass and to ing the farmers, of Maryland. county distribution agapts will a bost collected list own one throughout the State informed of webt. - Lesstang of Since from the the activities of there against that the chestre of I meeting exercise in their lieball. All reasons bound each a horse part of the state for copies of this there should be the or responsible for this greenline rected to Reulieu Usigiant. In Charge, of S.C. scidity. of Publisher, The Extension flor vice, Colored Ind., Marie

. best Till en Collect for Till

College Lank 35th Cell, 16.

loss Park There has not have work attained no contribution heliallic bon sweets to topic replication and in about test plitting infree of charge, "through the County hardy use the cost of recount an mere & in Tolgorifts on Statute. empth and it was sit of the committee to the committee of the samples were followed by the complete of the street of the

businesses tight to real a below or the entry out the extra agreement advice them on to the sweets of thirty . and with report to lime. In his Trungs to Market

"Will you not invite the farmers view county to bring their coil lead a supplifier most figure during hair that A Salverd and in above Ill w line due has flor lo done stamps be sufficient. We hope to be sole the owner of the sample may be

Soil addity is one of the most important spoolelus may copirmat when as become given out the goods, but the cole of Marchael are prepared took goviets grown in the

differ in this soil is untilined one from the second relief in-Commen. The presence of the first in the trade of the terms of the first first of the said also necrosis the locates ligne should be need over excellent. return Logi track, officially in Late any sould heady selected while hibition of delizates Consulary is from the minerals and eventies can lone for all as best patters bound comme bundered it is as on in minimum and the amountment latters conditions to color to the transfer rapid framprovision of the afrow min abused sintracted inter, business, account, and as about to they tested our wash they team line me to writing to sates our had one soon much could could be at the one of the soon of the soon and

> noting our to demonstrate quites were the life well and other was transport within all they are well

in secure forms will my modern's hatada I vigen in a start but a our the Estatiment of your section only detects positively the presented of all widter but gives definite information as to the decree of acidice. It is a vory single lest and In means of their tall its mean at reparelts our be made by sevente at bosons on the faren. The test depends most the fact that while vine salid, a state flour-like subdelimital besieve i bue the heart with it, a feet is formed critical course configure out amiliar out between out all holding a string of discountly selled adt to strong add to made

Mr. DE

430

CADILL SE

Profitors desugade hand seed out! of converters actificate the sales in the the application of there is wife KERN SET THE SERVICE AT SHOTE teles it and levent in which all was the and burden on What the total even it to turbit metitable toronda can a sometimes in minimize the constitution specie marker in the soil, thicker in side of early to ment description or the Application of a marginal to the C. F. SERVER CO. LOCAL CO. C. C.

Solvening Polymer Law Territorian

College Puris I'd Diet in. me leville be to love to the and their till han on the second

ing the yields of Boys' Corn and Potato Club members. During the last week of October they will hold a series of county and local exhibits at which keen competition among the young farmers is expected. In a statement just issued regarding the selection of potatoes for exhibition, C. E. Temple, of the Maryland State College says:

"I am often called upon to judge potatoes at county fairs and at various other kinds of organizations. The more judging I do the more I am convinced that only very few people really know the essentials of selecting potatoes for competitive At the same time, exhibition. these essentials are few in number and they are easy to remember. At the present time almost any kind or quality of potatoes will sell at a fair price, yet the market requirements constitute the guide of the potato judge. The highest prices, like the highest awards, must ever go to the highest quality. What, then, constitutes quality in potatoes?

Potatoes of high quality are:
True to name
Free from disease
Uniform in size and smooth
Mature
Clean but NEVER washed
Sound, without bruises or cavities
True to the type of the variety
Medium sized tubers for the
variety
Shallow eyes

White skin and white flesh, in those cases where different varieties compete for the same prize.

Experienced judges now-a-days score each lot of potatoes whenever the competition is keen for a given prize, just as has been done for on it gently.

many years in making awards in poultry. The Boys' Potato Clubs in many of the states have increased the interest in growing potatoes, and, in these clubs the competition is often keen, as such prizes as \$25 are often offered for the best peck. The boys, as well as all others making such exhibits, should bear in mind, that the lot which comes most nearly up to the standard given here, is the lot which will win. This is true no matter who does the judging or how they are judged, so long as everything is on the square.

Not one speck of disease should be allowed on any of the selected tubers, for a few diseased tubers will often disqualify a whole peck. The most common diseases to look for are scab which is easily seen, Rhizoctonia which looks like a spot of black earth that cannot be washed off, and the stem-end rot which requires sharp eyes to detect the first symptoms of it, however, by a close examination of the stem-end. Where the tuber is broken from the stem, one may find the first signs of the stem-end rot. Many people fail to observe these external symptoms and are surprised that the judge cut the only tuber with a brown ring in it. The brown ring on the inside near the stem-end of the tuber is a good symptom of stem-end rot. No tubers showing insect bites or bruises should be exhibited. Likewise, all tubers with knots and prongs and those with hollow centers should be eliminated. It often happens that the judge will cut the only hollow tuber in a peck exhibit because he can usually detect a hollow tuber by pressing

Uniformity of size is becoming as important in potatoes as in apples; hence, the potato judge lays con siderable stress upon uniformity in of size. If you want to score high on this character, you can arrange your tubers between two straight edges when you are selecting them. You will be surprised to see how uniformity of size and shape will help the looks of your exhibit. And it goes without saying, that all of the tubers in each lot should be of only one variety, as mixed varieties like mis-named varieties are often disqualified. Then too, there would be little use of having standards unless each lot were selected as being typical of the characteristic of the type of the variety to which it belongs. For example: the Irish Cobbler should be almost round with somewhat deeper eyes at the bud end than elsewhere: whereas, the Green Mountain should be two to three times as long as it is thick and as large (or slightly larger) at the bud end as at the stem end, and the eyes at the bud end should be a little to one side. Every variety, therefore, has its characteristic form of type. If the exhibitor is not familiar with the type of his variety. he should endeavor to learn it before making up his exhibit. As a last resort, he can send specimens of different types to his County Agent, to his State Experiment Station, or to the U.S. Department of Agri culture at Washington, D. C., for the information desired. In case tubers are sent as suggested here, they should be numbered and similar ones numbered and kept at home, so that the reply may be made by number.

Disappointment generally comes to the one who fails to observe these simple little rules. Let the head rather than the hand make the selection for the exhibit.

Cost!

True to the type of the variety

price out us time from done for on it gently.

indeed, so long an everything is on

nero, one may find the first again While sends the eyerny han leads neld process and three with n of resistanced plate and the life states and supply becoming it

Uniformly of sice is becoming us server, the notate during lays one blendin stress upon uniformity in on this character, you can arrange cour lighter between two straight they speak but ask to otherstine had didn't may be edged add glad to the took making a wind all of the tablets in each lot should be of only one variety, as mixed varieties disqualified. Then cop, there would be fiddle use of having standards unless such lot word selected as being typical of the characteristic t belongs. Nor example: the little Cobbler should be almost round the Green Mountain should be two a three times as long as it is think binoits bus and the bus end should in a little to one side. Hvery variand to agest add after middens to printly. Its should endeavor to least before maxing up las eguilitis, the Marion, on to the U.S. Paretand your yield the legit may he

754

Discipolalinest generally comes some and for a pointon whenever park califor in case in case which is the sales. That the sales which is the sales that the increase in the land angle of the control of the land that the land angle angle angle. things of religions of